

Meniscus Lenses

Product Description:

Meniscus Lenses have two curved surfaces with either a positive focal length or negative focal length.

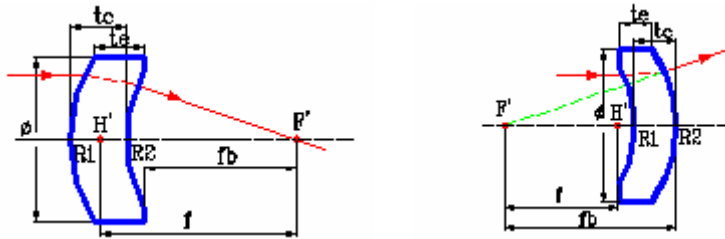
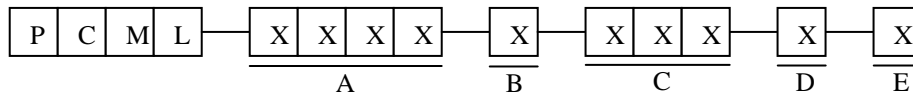


Figure 1: Schematic drawings of two meniscus lenses

Specifications:

Material	BK7 or Fused Silica
Design Wavelength	632.8 nm for BK7 587.6 nm for Fused Silica
Diameter Tolerance	+0.0, -0.15 mm
Paraxial Focal Length Tolerance	± 2%
Centering Tolerance	3 arc minutes
Clear Aperture	> 85%
Bevel	0.25mm X 45°
Surface Quality	40~20
AR coating	Specified by customer

Ordering Information for Positive Meniscus Lenses:



A	Wavelength	630=0630nm
		1310=1310nm
		XXXX=Your application wavelength
B	Material	1=BK7
		2=Fused Silica
		0=Special

C	Size	001=25.4X100.0X96.2X32.1X82.2X3.6X2.0
		Check standard size table for standard size
		00=customized size
D	AR Coating	1=yes
		0=no
E	Mount	1=Yes
		0=no

Standard Size Table (Material: BK7 Grade A Optical Glass)

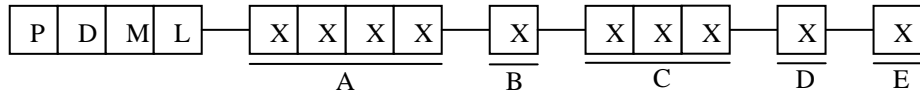
Dimension P/N	ϕ (mm)	f (mm)	fb (mm)	R1 (mm)	R2 (mm)	tc (mm)	te (mm)
001	25.4	100.0	96.2	32.1	82.2	3.6	2.0
002	25.4	125.0	121.6	40.6	106.9	3.3	2.0
003	25.4	150.0	146.8	49.1	131.6	3.1	2.0
004	25.4	200.0	197.1	66.2	182.2	2.8	2.0
005	25.4	250.0	247.3	83.4	233.9	2.6	2.0
006	25.4	300.0	297.5	100.9	288.2	2.5	2.0
007	25.4	400.0	397.6	136.5	402.4	2.4	2.0
008	25.4	500.0	497.7	172.9	523.9	2.3	2.0
009	25.4	1000.0	998.0	371.6	1330.7	2.2	2.0
010	50.8	100.0	89.1	30.3	65.8	9.7	1.1
011	50.8	125.0	116.1	39.2	92.9	8.2	2.4
012	50.8	150.0	142.2	47.9	119.3	7.3	2.7
013	50.8	200.0	193.6	65.2	171.6	6.2	2.9
014	50.8	250.0	244.3	82.5	224.7	5.5	3.0
015	50.8	300.0	294.8	100.1	279.1	5.1	3.0
016	50.8	400.0	395.0	135.8	393.4	5.0	3.4
017	50.8	500.0	495.1	172.3	515.7	5.0	3.7
018	50.8	1000.0	995.7	371.6	1326.3	5.0	4.4

Standard Size Table (Material: UV Grade Fused Silica)

Dimension P/N	ϕ (mm)	f (mm)	fb (mm)	R1 (mm)	R2 (mm)	tc (mm)	te (mm)
001	25.4	100.0	95.9	31.0	91.2	4.0	2.2
002	25.4	150.0	146.8	47.6	149.8	3.2	2.0
003	25.4	200.0	197.2	64.2	209.8	2.9	2.0
004	25.4	300.0	297.5	97.6	330.6	2.6	2.0
005	25.4	500.0	497.8	166.8	603.4	2.4	2.0
006	25.4	1000.0	998.0	348.0	1425.7	2.2	2.0
007	50.8	100.0	89.0	30.6	80.9	10.7	1.2
008	50.8	150.0	142.0	46.5	135.3	7.8	2.7

009	50.8	200.0	193.4	63.0	193.4	6.6	2.9
010	50.8	300.0	294.8	97.6	327.6	5.4	3.0
011	50.8	500.0	495.2	165.4	582.2	5.0	3.6
012	50.8	1000.0	995.6	356.7	1580.2	5.0	4.3

Ordering Information for Negative Meniscus Lenses:



A	Wavelength	630=0630nm
		1310=1310nm
		XXXX=Your application wavelength
B	Material	1=BK7
		2=Fused Silica
		0=Special
C	Size	001=25.4X100.0X99.0X33.7X100.0X3.0X4.7
		Check standard size table for standard size
		00=customized size
D	AR Coating	1=yes
		0=no
E	Mount	1=Yes
		0=no

Standard Size Table (Material: BK7 Grade A Optical Glass)

Dimension P/N	φ (mm)	-f (mm)	-fb (mm)	-R1 (mm)	-R2 (mm)	tc (mm)	te (mm)
001	25.4	100.0	99.0	33.7	100.0	3.0	4.7
002	25.4	125.0	123.7	38.8	100.0	3.0	4.3
003	25.4	150.0	148.5	43.1	100.0	3.0	4.1
004	25.4	200.0	198.0	50.2	100.0	3.0	3.8
005	25.4	250.0	247.5	55.7	100.0	3.0	3.7
006	25.4	300.0	298.8	95.1	250.0	3.0	3.5
007	25.4	400.0	398.4	112.5	250.0	3.0	3.4
008	25.4	500.0	498.0	126.3	250.0	3.0	3.3
009	25.4	1000.0	998.0	253.2	500.0	3.0	3.2
010	50.8	100.0	99.2	40.6	200.0	5.0	12.3
011	50.8	125.0	123.9	48.3	200.0	5.0	10.6
012	50.8	150.0	148.7	55.3	200.0	5.5	9.6
013	50.8	200.0	198.3	67.4	200.0	5.0	8.4

014	50.8	250.0	247.9	77.7	200.0	5.0	7.7
015	50.8	300.0	298.3	101.4	300.0	5.0	7.2
016	50.8	400.0	397.7	121.5	300.0	5.0	6.6
017	50.8	500.0	497.2	137.8	300.0	5.0	6.3
018	50.8	1000.0	996.7	252.9	500.0	5.0	5.6

Standard Size Table (Material: UV Grade Fused Silica)

Dimension P/N	ϕ (mm)	-f (mm)	-fb (mm)	-R1 (mm)	-R2 (mm)	tc (mm)	te (mm)
001	25.4	100.0	99.4	35.0	150.0	3.0	4.9
002	25.4	150.0	149.1	47.0	150.0	3.0	4.2
003	25.4	200.0	198.5	56.6	150.0	3.5	4.4
004	25.4	300.0	297.8	71.4	150.0	3.5	4.1
005	25.4	500.0	497.2	106.4	200.0	3.5	3.9
006	25.4	1000.0	995.5	180.8	300.0	4.0	4.2
007	50.8	100.0	99.3	37.1	200.0	5.0	13.4
008	50.8	150.0	148.8	50.2	200.0	5.0	10.2
009	50.8	200.0	198.4	62.5	200.0	5.0	8.8
010	50.8	300.0	298.1	88.4	250.0	5.0	7.4
011	50.8	500.0	497.4	129.5	300.0	5.0	6.4
012	50.8	1000.0	994.7	180.6	300.0	5.0	5.7